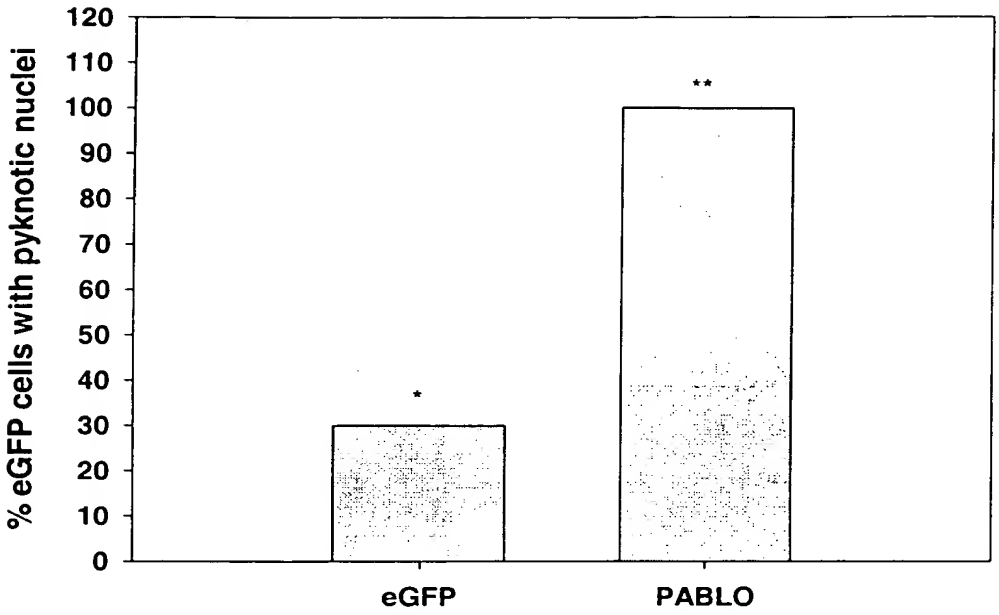
% eGFP cells with pyknotic nuclei
120
110
100
90
80
70
60
50
40
30
20
10
0
*
**
eGFP
PABLO

FIGURE 1

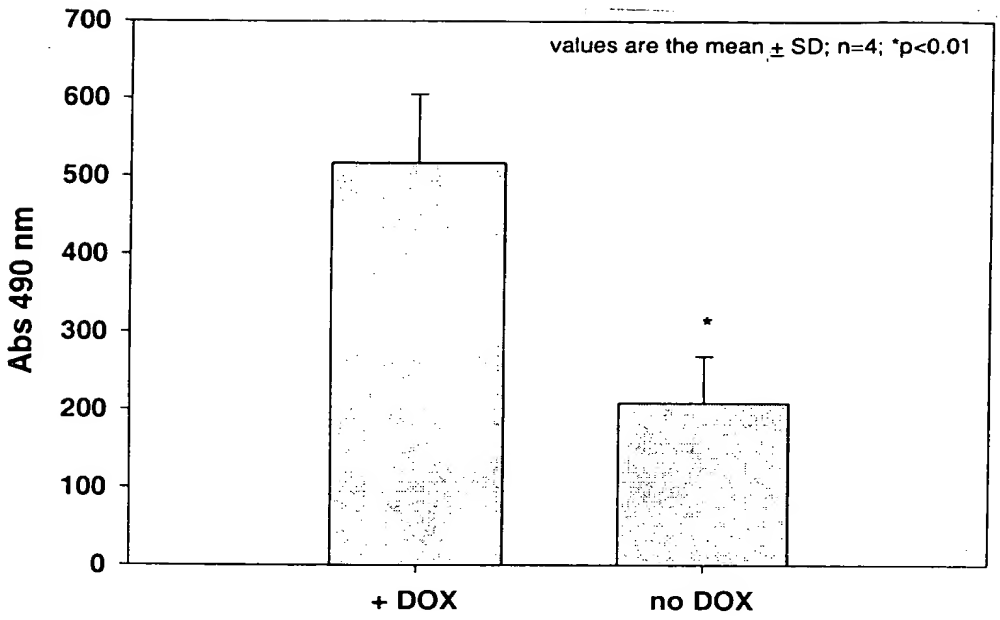
values are the mean ± SD; n=4; *p<0.01
Abs 490 nm
700
600
500
400
300
200
100
0
*
+ DOX
no DOX

FIGURE 2

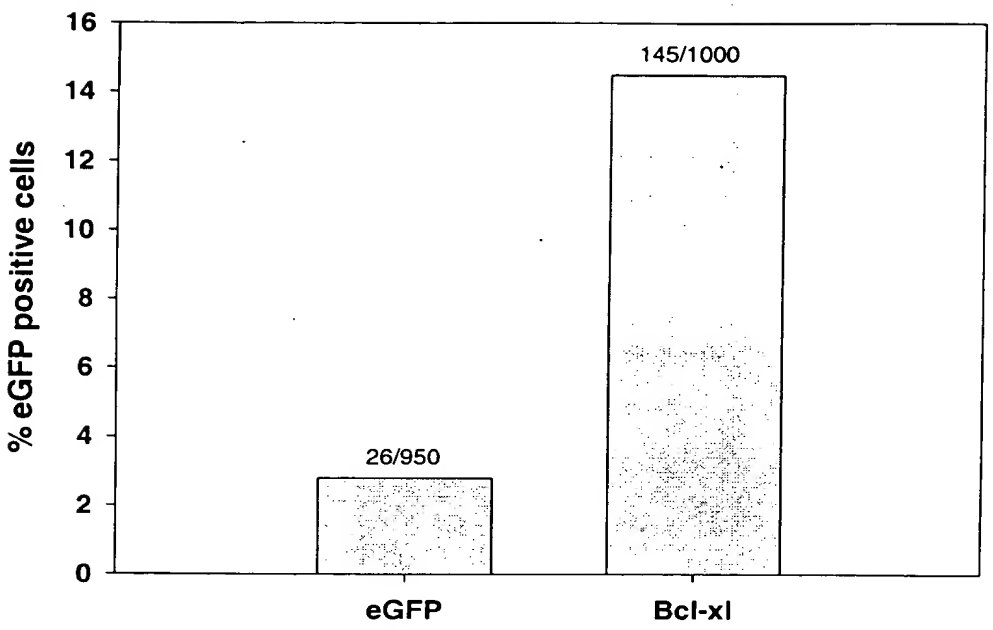
16
14
12
10
8
6
4
2
0
% eGFP positive cells
145/1000
26/950
eGFP
Bcl-xl

FIGURE 3

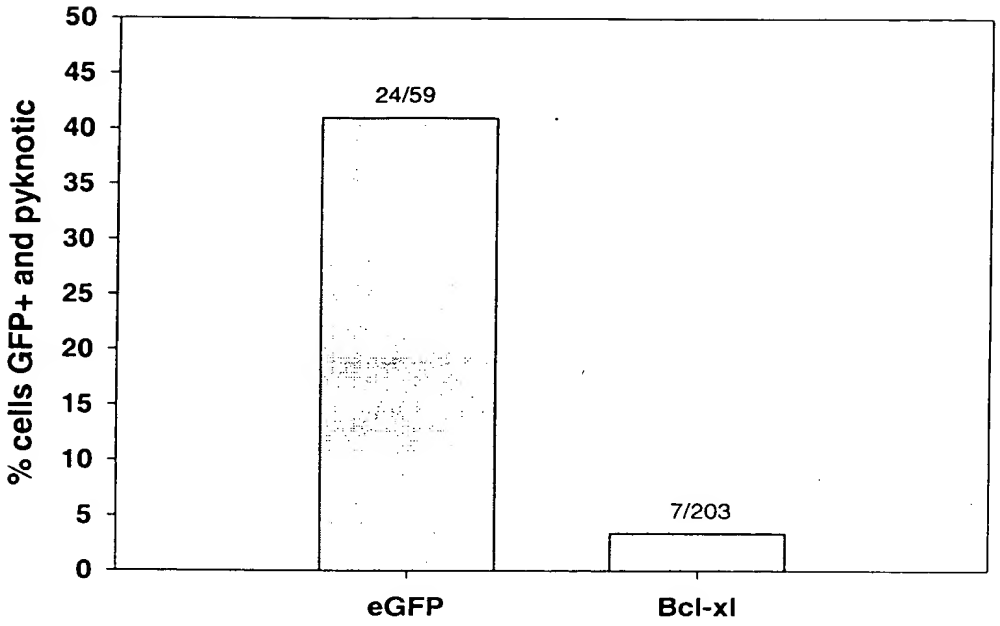
50
45
40
35
30
25
20
15
10
5
0
% cells GFP+ and pyknotic
24/59
7/203
eGFP
Bcl-xl

FIGURE 4

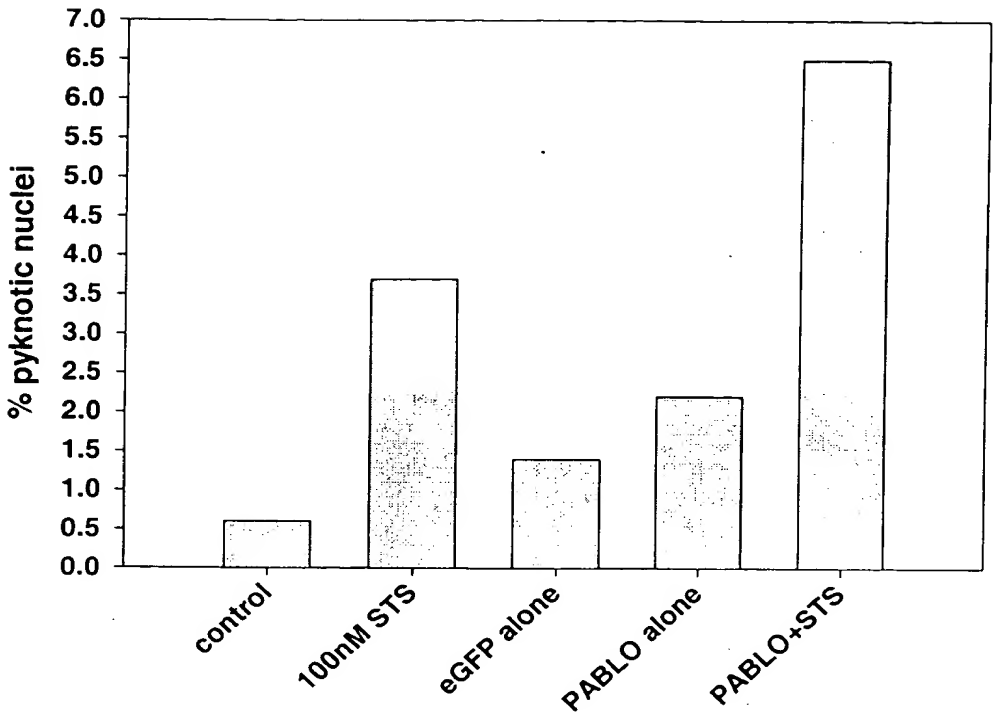
% pyknotic nuclei
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
control
100nM STS
eGFP alone
PABLO alone
PABLO+STS

FIGURE 5

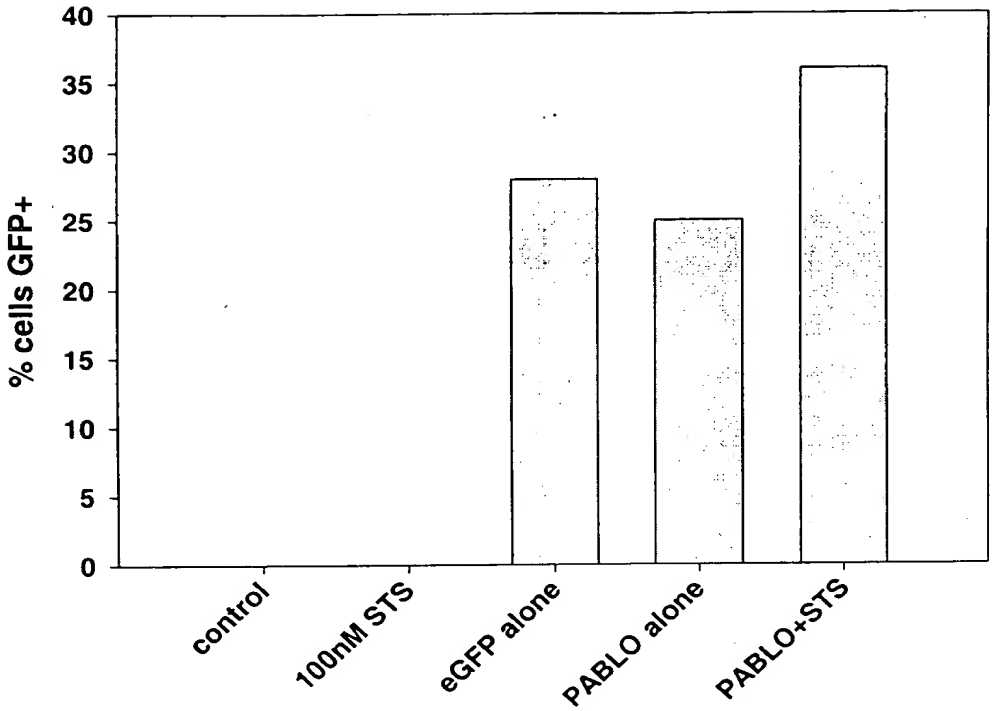
40
35
30
25
20
15
10
5
0
% cells GFP+
control
100nM STS
eGFP alone
PABLO alone
PABLO+STS

FIGURE 6

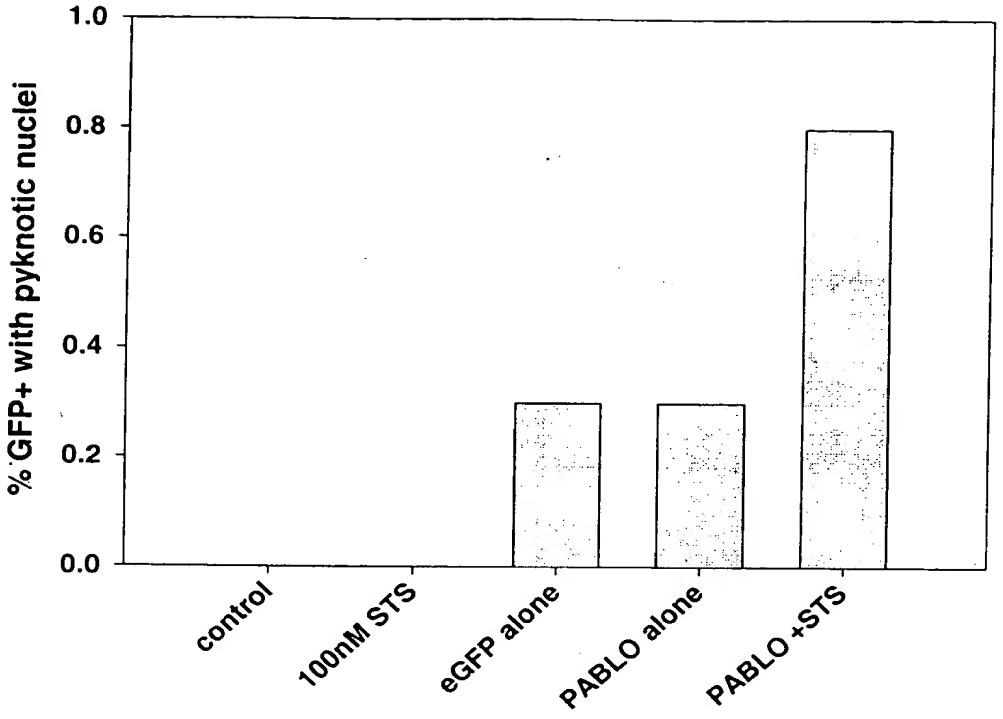
1.0
0.8
0.6
0.4
0.2
0.0
% GFP+ with pyknotic nuclei
control
100nM STS
eGFP alone
PABLO alone
PABLO +STS

FIGURE 7

Effect of PABLO transfection on neuronal and non-neuronal cells

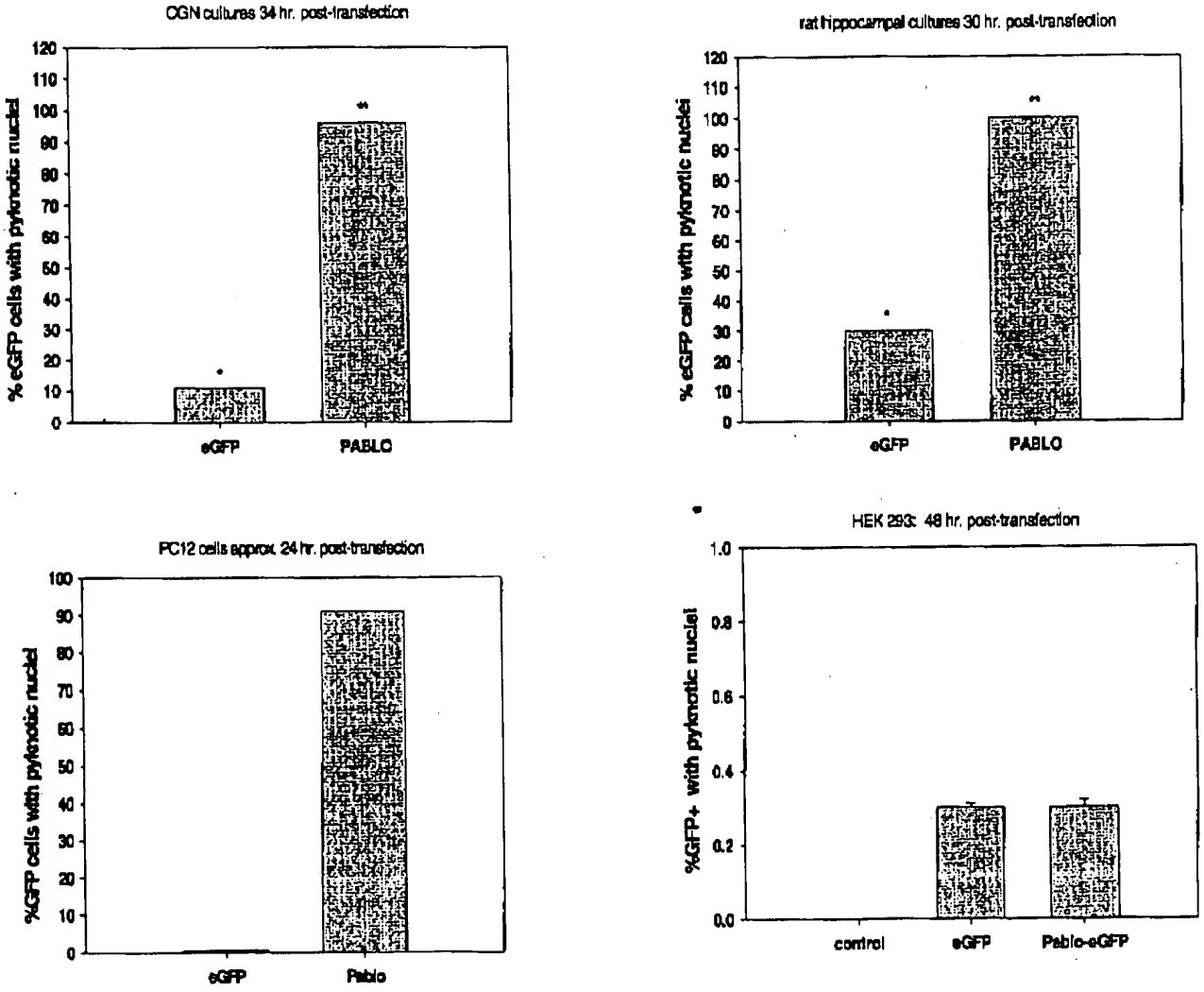

FIGURE 8

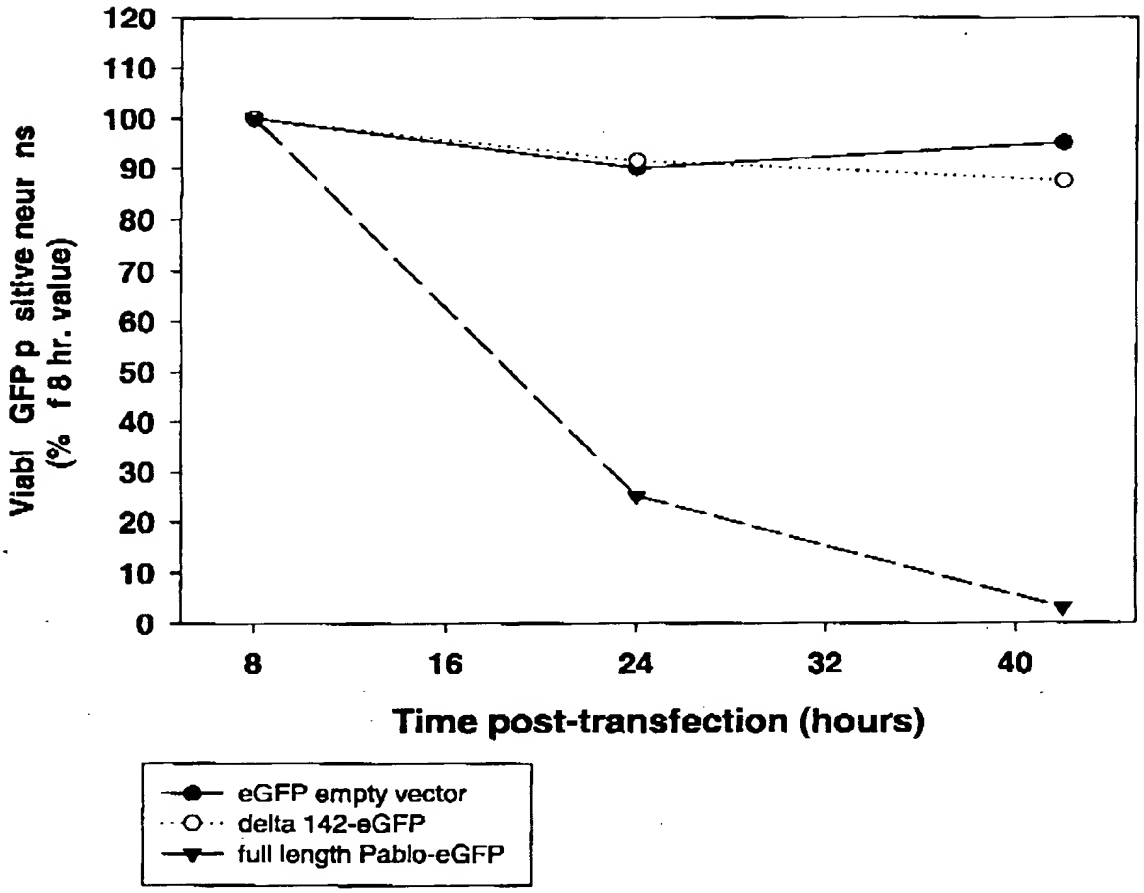
120
110
100
90
80
70
60
50
40
30
20
10
0
8
16
24
32
40
Viabl GFP p sitive neur ns
(% f 8 hr. value)
Time post-transfection (hours)
eGFP empty vector
delta 142-eGFP
full length Pablo-eGFP

FIGURE 9

Figure 10: Bclxl (ΔTM)/pAS2-1

Bclxl/pAS2-1

	10 20 30 40 50
19 Bclxl/pAS2-1	CAGCTTTGAC TCATATGAAA ATGTCTCAGA GCAACCGGGA GCTGGTGGTT
	60 70 80 90 100
19 Bclxl/pAS2-1	GACTTTCTCT CCTACAAGCT TTCCCAGAAA GGATACAGCT GGAGTCAGTT
	110 120 130 140 150
19 Bclxl/pAS2-1	TAGTGATGTG GAAGAGAACA GGACTGAGGC CCCAGAAGGG ACTGAATCGG
	160 170 180 190 200
19 Bclxl/pAS2-1	AGATGGAGAC CCCCAGTGCC ATCAATGGCA ACCCATCCTG GCACCTGGCA
	210 220 230 240 250
19 Bclxl/pAS2-1	GACAGCCCCG CGGTGAATGG AGCCACTGGC CACAGCAGCA GTTTGGATGC
	260 270 280 290 300
19 Bclxl/pAS2-1	CCGGGAGGTG ATCCCCATGG CAGCAGTAAA GCAAGCGCTG AGGGAGGCAG
	310 320 330 340 350
19 Bclxl/pAS2-1	GCGACGAGTT TGAACTGCGG TACCGGCGGG CATTCAGTGA CCTGACATCC
	360 370 380 390 400
19 Bclxl/pAS2-1	CAGCTCCACA TCACCCCAGG GACAGCATAT CAGAGCTTTG AACAGGTAGT
	410 420 430 440 450
19 Bclxl/pAS2-1	GAATGAACTC TTCCGGGATG GGGTAAACTG GGGTCGCATT GTGGCCTTTT
	460 470 480 490 500
19 Bclxl/pAS2-1	TCTCCTTCGG CGGGGCACTG TGCGTGGAAA GCGTAGACAA GGAGATGCAG
	510 520 530 540 550
19 Bclxl/pAS2-1	GTATTGGTGA GTCGGATCGC AGCTTGGATG GCCACTTACC GGAATGACCA
	560 570 580 590 600
19 Bclxl/pAS2-1	CCTAGAGCCT TGGATCCAGG AGAACGGCGG CTGGGATACT TTTGTGGAAC
	610 620 630 640 650
19 Bclxl/pAS2-1	TCTATGGGAA CAATGCAGCA GCCGAGAGCC GAAAGGGCCA GGAACGCTTC
	660 670 680 690 700
19 Bclxl/pAS2-1	AACCGCTGAG TCGACCTGCA GCCAAGCTAA TTCCGGGCGA ATTTCTTATG
	710 720 730 740 750
19 Bclxl/pAS2-1	ATTTATGATT TTTATTATTA AATAAGTTAT AAAAAAAATA AGTGTAT

Figure 11: Amino Acid Sequence of Bclxl (TM) Used As Bait In Yeast 2-Hybrid Screen.

```
         10        20        30        40        50        60        70
---------|---------|---------|---------|---------|---------|---------|

MSQSNRELVVDFLSYKLSQKGYSWSQFSDVEENRTEAPEGTESEMETPSAINGNPSWHLADSPAVNGATA      70
HSSSLDAREVIPMAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTAYQSFEQVVNELFRDGVNWGRI     140
VAFFSFGGALCVESVDKEMQVLVSRIAAWMATYLNDHLEPWIQENGGWDTFVELYGNNAAAESRKGQERF     210
NR  212
```

Figure 12: Nucleotide Sequence of Pablo Δ142

```
        10         20         30         40         50         60         70

atgccgctagtgaaaagaaacatcgatcctaggcacttgtgccacacagcactgcctagaggcattaaga     70
atgaactggaatgtgtaaccaatatttccttggcaaatataattagacaactaagtagcctaagtaaata    140
tgctgaagatatatttggagaattattcaatgaagcacatagtttttccttcagagtcaactcattgcaa    210
gaacgtgtggaccgtttatctgttagtgttacacagcttgatccaaaggaagaagaattgtctttgcaag    280
atataacaatgaggaaagctttccgaagttctacaattcaagaccagcagcttttcgatcgcaagacttt    350

        360        370        380        390        400        410        420

gcctattccattacaggagacgtacgatgtttgtgaacagcctccacctctcaatatactcactccttat    420
agagatgatggtaaagaaggtctgaagttttataccaatccttcgtatttctttgatctatggaaagaaa    490
aaatgttgcaagatacagaggataagaggaaggaaaagaggaagcagaagcagaaaaatctagatcgtcc    560
tcatgaaccagaaaaagtgccaagagcacctcatgacaggcggcgagaatggcagaagctggcccaaggt    630
ccagagctggctgaagatgatgctaatctcttacataagcatattgaagttgctaatggcccagcctctc    700

        710        720        730        740        750        760        770

attttgaaacaagacctcagacatacgtggatcatatggatggatcttactcactttctgccttgccatt    770
tagtcagatgagtgagcttctgactagagctgaggaaagggtattagtcagaccacatgaaccacctcca    840
cctccaccaatgcatggagcaggagatgcaaaaccgatacccacctgtatcagttctgctacaggtttga    910
tagaaaatcgccctcagtcaccagctacaggcagaacacctgtgtttgtgagccccactcccccacctcc    980
tccaccacctcttccatctgccttgtcaacttcctcattaagagcttcaatgacttcaactcctcccccc   1050

       1060       1070       1080       1090       1100       1110       1120

ccagtacctcccccacctccacctccagccactgctttgcaagctccagcagtaccaccacctccagctc   1120
ctcttcagattgcccctggagttcttcacccagctcctcctccaattgcacctcctctagtacagccctc   1190
tccaccagtagctagagctgccccagtatgtgagactgtaccagttcatccactcccacaaggt 1254
```

Figure 13: Amino Acid Sequence of Pablo Δ142

```
         10        20        30        40
--------------------------------------------------------------------
MPLVKRNIDPRHLCHTALPRGIKNELECVTNISLANIIRQ     40
LSSLSKYAEDIFGELFNEAHSFSFRVNSLQERVDRLSVSV     80
TQLDPKEEELSLQDITMRKAFRSSTIQDQQLFDRKTLPIP     120
LQETYDVCEQPPPLNILTPYRDDGKEGLKFYTNPSYFFDL     160
WKEKMLQDTEDKRKEKRKQKQKNLDRPHEPEKVPRAPHDR     200

        210       220       230       240
--------------------------------------------------------------------
RREWQKLAQGPELAEDDANLLHKHIEVANGPASHFETRPQ     240
TYVDHMDGSYSLSALPFSQMSELLTRAEERVLVRPHEPPP     280
PPPMHGAGDAKPIPTCISSATGLIENRPQSPATGRTPVFV     320
SPTPPPPPPPLPSALSTSSLRASMTSTPPPPVPPPPPPPA     360
TALQAPAVPPPPAPLQIAPGVLHPAPPPIAPPLVQPSPPV     400

        410       420       430       440
--------------------------------------------------------------------
ARAAPVCETVPVHPLPQG 418
```